

Control Number: 50594



Item Number: 29

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Public Utility Commission of Texas

2020 APR 28 AM 10: 27

FUBLIS UTILITY COMMISSION

Five-Year Report Required by 16 Texas Admin. Code § 25.97(e)

PROJECT NO. 50594

AFFECTED ENTITY: CITY OF FLOYDADA

General Information

Pursuant to 16 Texas Admin. Code § 25.97(e)(1), not later than May 1 every five years, each affected entity that owns or operates overhead transmission facilities greater than 60 kilovolts must submit this report. The first report must be submitted not later than May 1, 2020.

Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

> Central Records Filing Clerk Public Utility Commission of Texas 1701 N. Congress Avenue P.O. Box 13326 Austin, Texas 78711-3326

Telephone: (512) 936-7180

1. Historical five-year reporting period: 2014-2019				
What percentage of overhead transmission facilities greater than 60 kilovolts did you inspect for compliance with the National Electric Safety Code (NESC) relating to vertical clearance in the historical five-year reporting period?				
Visually inspected 80% of 3 miles of transmission line, but never documented.				
·				

Five-Year Report Form Last Updated in Project No. 49827

Affected Entity: CITY OF FLOYDADA

PROJECT NO. <u>50594</u>

2. Future five-year reporting period: 2020-2025				
What percentage of overhead transmission facilities greater than 60 kilovolts do you anticipate you will inspect for compliance with the NESC relating to vertical clearance during the future five-year reporting period beginning on January 1 of the year in which this report is submitted?				
100%, and document time, date and any hazards or violations.				

Affected Entity: CITY OF FLOYDADA

PROJECT NO. 50594

AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

RAY PEREZ

Printed Name

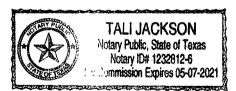
ELECTRIC SUPERINTENDENT

Job Title

CITY OF FLOYDADA

Name of Affected Entity

Sworn and subscribed before me this



Notary Public in and For the State of <u>U</u>

My commission expires on \mathcal{D}

2017 NESC Vertical Clearances

Railways Neutral

23.5 ft

24 ft

TPX Dist. Primary 26.5 ft

Highways – TX Administrative Code

Communications and Cable TV 18 ft

Electrical Lines 22 ft

Trucks Over 8 ft.

Neutral and Span Guys 15.5 ft

TPX 16 ft

Dist. Primary

18.5 ft

Fields, Orchards, Forest, Etc.

Neutral and Span Guy 15.5 ft

TPX 16 ft

Dist. Primary 18.5 ft

Pedestrians Only

Neutral and Span Guy 9.5 ft

TPX 12 ft

Dist. Primary 14.5 ft

Water - No Sailboat

Neutral and Span Guy 14 ft

TPX 14.5 ft

Dist. Primary 17 ft

Waterways Suitable for Sailing			Rigging or Launching Areas
		Less Than 20 Acres	
Neutral and Span Guy	17.5 ft		22.5 ft
TPX	18 ft		23 ft
Dist. Primary	20.5 ft		25.5 ft
		20 to 200 Acres	
Neutral and Span Guy	25.5 ft		30.5 ft
TPX	26 ft		31 ft
Dist. Primary	28.5 ft		33.5 ft
		200 to 2,000 Acres	
Neutral and Span Guy	31.5 ft		36.5 ft
TPX	32 ft		37 ft
Dist. Primary	34.5 ft		39.5 ft
		Over 2,000 Acres	
Neutral and Span Guy	37.5 ft		42.5 ft
·TPX	38 ft		43 ft
Dist. Primary	40.5 ft		45.5 ft

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Requirements – Training Texas Utilities Code

SECTION, 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS

- (a) Each electric utility, municipally owned utility, and electric cooperative that owns or operates overhead transmission or distribution assets shall submit to the commission a report that includes:
 - (1) a summary description of hazard recognition training documents provided by the utility or electric cooperative to its employees related to overhead transmission and distribution facilities; and
 - (2) a summary description of training programs provided to employees by the utility or electric cooperative related to the National Electrical Safety Code for the construction of electric transmission and distribution lines.
- (b) An electric utility, municipally owned utility, or electric cooperative shall submit an updated report not later than the 30th day after the date the utility or electric cooperative finalizes a material change to a document or program included in a report submitted under Subsection (a).
- (c) Not later than May 1 every five years, each electric utility, municipally owned utility, and electric cooperative that owns or operates overhead transmission facilities greater than 60 kilovolts shall submit to the commission a report for the preceding five-year period ending on December 31 of the preceding calendar year that includes:
 - (1) the percentage of overhead transmission facilities greater than 60 kilovolts inspected for compliance with the National Electrical Safety Code relating to vertical clearance in the reporting period; and
 - (2) the percentage of the overhead transmission facilities greater than 60 kilovolts anticipated to be inspected for compliance with the National Electrical Safety Code relating to vertical clearance during the five-year period beginning on January 1 of the year in which the report is submitted.
- (d) Subject to Subsection (f), not later than May 1 of each year, each electric utility, municipally owned utility, or electric cooperative that owns or operates overhead transmission facilities greater than 60 kilovolts shall submit to the commission a report on the overhead transmission facilities for the preceding calendar year that includes information regarding:
 - (1) the number of identified occurrences of noncompliance with Section 38.004 regarding the vertical clearance requirements of the National Electrical Safety Code for overhead transmission facilities;
 - (2) whether the utility or electric cooperative has actual knowledge that any portion of the utility's or electric cooperative's transmission system is not in compliance with Section 38.004 regarding the vertical clearance requirements of the National Electrical Safety Code; and
 - (3) whether the utility or electric cooperative has actual knowledge of violations of easement agreements with the United States Army Corps of Engineers relating to Section 38.004

regarding the vertical clearance requirements of the National Electrical Safety Code for overhead transmission facilities.

Note: U S Army Corps of Engineers have jurisdiction over all navigable water in the United States. Their clearance requirements and easement agreements are usually stricter than the NESC but the more stringent regulation of the two shall be conformed to.

- (e) Subject to Subsection (f), not later than May 1 of each year, each electric utility, municipally owned utility, or electric cooperative that owns or operates overhead transmission facilities greater than 60 kilovolts or distribution facilities greater than 1 kilovolt shall submit to the commission a report for the preceding calendar year that includes:
 - (1) the number of fatalities or injuries of individuals other than employees, contractors, or other persons qualified to work in proximity to overhead high voltage lines involving transmission or distribution assets related to noncompliance with the requirements of Section 38.004; and
 - (2) a description of corrective actions taken or planned to prevent the reoccurrence of fatalities or injuries described by Subdivision (1).
- (f) Violations resulting from, and incidents, fatalities, or injuries attributable to a violation resulting from, a natural disaster, weather event, or man-made act or force outside of a utility's or electric cooperative's control are not required to be included in the portions of the reports required under Subsections (d) and (e).
- (g) Not later than September 1, each year the commission shall make the reports publicly available on the commission's Internet website.
- (h) A report, and any required information contained in a report, made on an incident or violation under this section is not admissible in a civil or criminal proceeding against the electric utility, municipally owned utility, or electric cooperative, or the utility's or electric cooperative's employees, directors, or officers. The commission may otherwise take enforcement actions under the commission's authority.

SECTION 38.004. MINIMUM CLEARANCE STANDARD

- (a) Notwithstanding any other law, a transmission or distribution line owned by an electric utility or an electric cooperative must be constructed, operated, and maintained, as to clearances, in the manner described by the National Electrical Safety Code Standard ANSI (c)(2), as adopted by the American National Safety Institute and in effect at the time of construction.
 - Means that even if something is written that is opposite in meaning to the provision; the provision will still apply. It is a formal way of saying that the provision will ALWAYS apply. In this case, even if the act or any other law says something opposed to that provision, it doesn't matter.
- (b) An electric utility, municipally owned utility, or electric cooperative shall meet the minimum clearance requirements specified in Rule 232 of the National Electrical Safety Code Standard ANSI (c)(2) in the construction of any transmission or distribution line over all of the 178 lakes listed in this section.

Lakes Listed In Section 38.004

1. Abilene	44. Clyde	87. Jacksonville
2. Alan Henry	45. Coffee Mill	88. J. B. Thomas
3. Alvarado Park	46. Coleman	89. Joe Pool
4. Amistad	47. Coleto Creek	90. Kemp
5. Amon G. Carter	48. Colorado City	91. Kickapoo
6. Aquilla	49. Conroe	92. Kirby
7. Arlington	50. Cooper	93. Kurth
8. Arrowhead	51. Corpus Christi	94. Lady Bird
9. Athens	52. Crook	95. Lake O' The Pines
10. Austin	53. Cypress Springs	96. Lavon
11. Averhoff	54. Daniel	97. Leon
12. B. A. Steinhagen	55. Davy Crockett	98. Lewisville
13. Bachman	56. Diversion	99. Limestone
14. Balmorhea	57. Dunlap	100. Livingston
15. Bardwell	58. Eagle Mountain	101. Lone Star
16. Bastrop	59. E. V. Spence	102. Lost Creek
17. Baylor Creek	60. Fairfield	103. Lyndon B. Johnson
18. Belton	61. Falcon	104. Mackenzie
19. Benbrook	62. Fayette County	105. Marble Falls
20. Big Creek	63. Findley	106. Marine Creek
21. Bob Sandlin	64. Fork	107. Martin Creek
22. Bonham	65. Ft Parker State Park	108. McClellan
23. Bonham State Park	66. Ft Phantom Hill	109. Medina
24. Brady Creek	67. Fryer	110. Meredith
25. Brandy Branch	68. Georgetown	111. Meridian State Park
26. Braunig	69. Gibbons Creek	112. Mexia
27. Brazos	70. Gilmer	113. Mill Creek
28. Bridgeport	71. Gladewater	114. Millers Creek
29. Brownwood	72. Gonzales	115. Mineral Wells
30. Bryan	73. Graham	116. Monticello
31. Bryson	74. Granbury	117. Moss
32. Buchanan	75. Granger	118. Mountain Creek
33. Buffalo Creek	76. Grapevine	119. Muenster
34. Buffalo Springs	77. Greenbelt	120. Murvaul
35. Caddo	78. Halbert	121. Nacogdoches
36. Calaveras	79. Hawkins	122. Naconiche
37. Canyon	80. Holbrook	123. Nasworthy
38. Casa Blanca	81. Hords Creek	124. Navarro Mills
39. Cedar Creek	82. Houston	125. New Ballinger
40. Champion Creek	83. Houston County	126. Nocona
41. Choke Canyon	84. Hubbard Creek	127. Oak Creek
42. Cisco	85. Inks	128. O. C. Fisher
43. Cleburne State Park	86. Jacksboro	129. O. H. Ivie

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130. Palestine

131. Palo Duro

132. Palo Pinto

133. Pat Cleburne

134. Pat Mayse

135. Pinkston

136. Placid

137. Possum Kingdom

138. Proctor

139. Purtis Creek

140. Quitman

141. Raven

142. Ray Hubbard

143. Ray Roberts

144. Red Bluff

145. Richland-Chambers

146. Sam Rayburn

147. Sheldon

148. Somerville

149. Squaw Creek

150. Stamford

151. Stillhouse Hollow

152. Striker

153. Sulphur Springs

154. Sweetwater

155. Tawakoni

156. Texana

157. Texoma

158. Timpson

159. Toledo Bend

160. Tradinghouse Creek

161. Travis

162. Twin Buttes

163. Tyler

164. Waco

165. Walter E. Long

166. Waxahachie

167. Weatherford

168. Welsh

169. Wheeler Branch

170. White River

171. White Rock

172. Whitney

173. Wichita

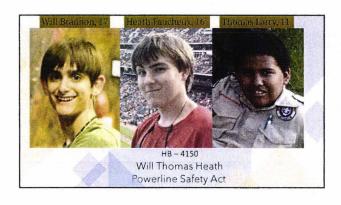
174. Winnsboro

175. Winters-Elm Creek

176. Wood

177. Worth

178. Wright Patman



 Texas Governor Greg Abbott signed the William Thomas Heath Power Line Safety Act, HB 4150 into law on June 14, 2019, with the Act becoming effective September 1, 2019.



The Act requires utilities to submit various reports on training, inspections, compliance, and incidents. The first report is due by May 1, 2020.

Utilities Required to Train & Report

There are three categories of electric utilities required to submit various reports to the Texas Public Utilities Commission.

- 1. Electric utilities with distribution facilities only.
- 2. Electric utilities with transmission facilities only.
- 3. Electric utilities with both distribution and transmission facilities.

Some of these reports will be annual and some on a 5 year reporting schedule. Again, the first of these reports are due May 1, 2020.

Requirements – **Training** Sec. 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

What does It Say?

- 1. Submit Summary of Hazard Recognition Training for Employees
- 2. Submit Summary of NESC Training for Employees
- 3. Submit within 30 days any Changes to Report or Program

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Requirements – Training Sec 38 102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

What does It Say?

- 1 For Utilities Owning or Operating Transmission above 60 KV Every 5 years a Report Must be Submitted to the Commission No later than May 1st.
- 2 Report must include the Percent of the Transmission System Inspected in the Period Relating to NESC Vertical Clearances
- 3 The Percent Anticipated to be Inspected in the Period Relating to NESC Vertical Clearance

Requirements – Training Sec 38 102 REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

For Utilities Owning or Operating Transmission above 60 KV

- 1 Every year by May $\mathbf{1}^{\mathfrak{A}}$ a Report Including the Number of Noncompliance Occurrences Identified and Whether They Have Actual Knowledge of Any Portions Which are Noncompliant with NESC Vertical Clearances
- 2 Whether They Have Actual Knowledge of Any Violations of Easement Agreements with U.S. Corp of Engineers

Note U S Army Corps of Engineers have jurisdiction over all navigable water in the United States. Their clearance requirements and easement agreements are usually more stringent than the NESC but the more stringent regulation of the two shall be conformed to

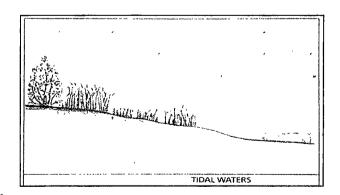


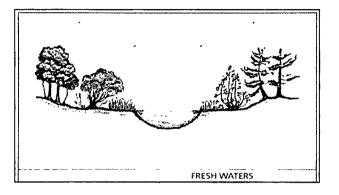
Recognition of Army Carps of Engineers Authority is in

US Army Corps

What are the Limits of the Corps Jurisdiction?

- The Corps regulations broadly define two important terms, "waters of the United States" for the purpose of Section 404 of the Clean Water Act, and "navigable waters of the United States" for Section 10 of the Rivers and Harbors Act
- Section 404 of the Clean Water Act defines the landward limit of jurisdiction as the high tide line in tidal waters and the ordinary high water mark as the limit in non-tidal waters





Requirements – Reporting Sec 38 102 REPORTS ON SAFETY PROCESSES AND INSPECTIONS

What Does It Say?

Every System Operating Above 60KV Transmission and Above 1KV Distribution Must Submit a Report Each Year No Later than May $1^{\rm St}$

Including the Number of Fatalities or Injuries to Nonqualified Persons Involving Noncompliant Portions of the System

And a Description of Corrective Actions Taken or Planned to Prevent the Reoccurrence of Fatalities or Injuries

Requirements – Reporting Sec 38 102 REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

Violations and Incidents Resulting from a Natural Disaster, Weather Event, or Force Outside of a Utility's Control are not Required to be Included in the Reports

By September 1, Each Year the Commission Shall Make the Reports Publicly Available on the Commission's Internet Website

The Report, is not Admissible in a Civil or Criminal Proceeding Against the Electric Utility or the Utility's Employees, Directors, or Officers

The Commission May Otherwise Take Enforcement Actions Under The Commission's Authority

Understanding Chapter 38 Section 38.004 of the Texas Utilities Code: Minimum Clearance Standard

Sec 38 004 MINIMUM CLEARANCE STANDARD

(a) Notwithstanding Any Other Law, A Transmission Or Distribution Line Owned by An Electric Utility Must Be Constructed, Operated, and Maintained, as to Clearances, in the Manner Described by the National Electrical Safety Code Standard ANSI (C)(2), as Adopted by the American National Safety Institute and in Effect at the Time of Construction

Means that even if something is written that is opposite in meaning to the provision, the provision will still apply it is a formal way of saying that the provision will ALWAYS apply in this case, even if the act or any other law says something opposed to that provision it doesn't matter

Understanding Chapter 38 Section 38.004 of the Texas Utilities Code: Minimum Clearance Standard

Sec. 38.004. MINIMUM CLEARANCE STANDARD.

(b) Electric Utilities, Shall Meet The Minimum Clearance Requirements Specified In Rule 232 of the National Electrical Safety Code Standard ANSI (c)(2) in the Construction of any Transmission or Distribution Line Over All of The 178 Lakes Listed in This Section. (Hand-Out)

CHAPTER 38. REGULATION OF ELECTRIC SERVICES SUBCHAPTER A. STANDARDS

Sec. 38.001. GENERAL STANDARD.

An Electric Utility Shall Furnish Service, Instrumentalities, and Facilities that are Safe, Adequate, Efficient, and Reasonable.

Meeting This Standard Means That Utilities Must Maintain Their System's Infrastructure in a Safe, Reliable Condition for the Public, as Well as for Employees.



What is a Hazard?

A Hazard Is An Unsafe Act Or Unsafe Condition With Potential To Cause Illness, Injury, Or Death To People Or Animals, Damage To Property, Damage To The Environment, Or A Combination Of These.

Hazard Recognition

Designed to Identify, Report, Repair, Eliminate and Document any Potential Hazard on the Utilities' Infrastructure.

Reporting Hazardous Conditions

When A Hazardous Condition Is Observed, Regardless Of The Department In Which The Condition Exists, The Employee Shall Report It Promptly To A Proper Authority And When Necessary Guard The Area.

Some Reasons Why....

- Your Safety
- Your Crew's Safety
- The Public's Safety
- Company Policy
 - Safety Manual

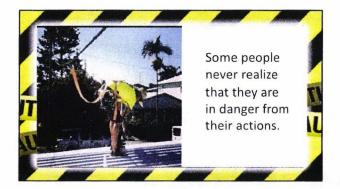
Reporting Hazardous Conditions Continued
An Employee Who Receives A Report Of Any
Hazardous Emergency Condition Shall Try To
Obtain The Name Of The Informant, The Exact
Location, And The Nature Of The
Trouble/Hazard. The Employee Shall
Immediately Refer This Information To The
Person Having Responsibility For Such
Matters.

Hazard Types

- 1. Obvious Hazards
- 2. Concealed Hazards
- 3. Developing Hazards
- 4. Transient Hazards

No program means...

- Service Disruption
- Strained Public Relations
 - Possible Litigation



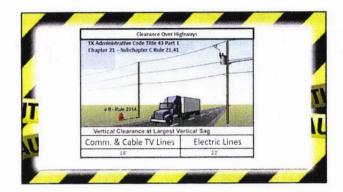


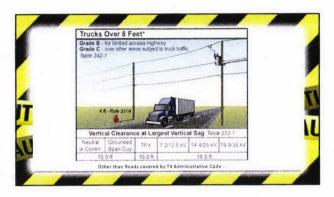




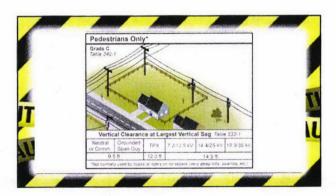












The NESC Clearance Requirements Are Different Depending On Whether Or Not The Waterway Is Suitable For Sail-boating.
Additionally, the NESC Publishes Separate Clearance Requirements For Areas That Are Posted For Rigging Or Launching Sailboats.

Where The Body Of The Water Is Not Suitable For Sailing Or Where Sailing Is Prohibited, The Minimum Clearance For Electrical Lines Is Always 17 Feet.



In Waterways Suitable For Sailing, The NESC Clearance Requirement Changes Depending On The Surface Area Of The Body Of Water. The Larger The Body Of Water, The Higher The Required Clearance. Below Are The NESC Clearances For Waterways Suitable For Sailing:

•If The Surface Area Is Less Than 20 Acres, The Minimum Clearance Is 20.5 Feet;



As With The Waterways Suitable For Sailing, NESC Clearances For Electrical Lines In Areas Posted For Rigging Or Launching Sailboats
Change Depending On Surface Area Of The Body Of Water. Below Are The NESC Clearance Requirements For Land Or Water Areas That Are Posted For Rigging Or Launching Sailboats:

•If The Surface Area Is Less Than 20 Acres, The Minimum Clearance Is 25.5 Feet;

Rigging Or Launching Sailboats If The Surface Area Is Between 20 And 200 Acres, The Minimum Clearance Is 33.5 Feet; •If The Surface Area Is Between 200 And 2000 Acres, The Minimum Clearance Is 39.5 Feet; •If The Surface Area Is Over 2000 Acres, The Minimum Clearance Is 45.5 Feet.

